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**From:** Banks, Karl [Banks.Karl@EPA.GOV]  
**Sent:** 5/29/2018 7:59:30 PM  
**To:** tbodell@hopiUC.com  
**CC:** Rapicavoli, Emmanuelle [Rapicavoli.Emmanuelle@epa.gov]  
**Subject:** FYI  
**Attachments:** D35 & E18 Part 1.pdf; D35 & E18 Part 2.pdf; D35 & E18 Part 3.pdf

Tim-  
Great to see you last week.

I was curious so I looked for some documentation as to how long that Hualapai pipeline project took. Turns out, 5 years may not be so outlandish. As you can see from the attached document, once funded, it lasted from 2009-2013. It included around 25000 LF of 6 inch pipeline. It is comparable to the HAMP in that some of the pipeline was aligned with roadway, while some had to go cross-country. The terrain is largely similar, though HOPI may have some harder rock stretches, so I hear. NOTE: this project was funded through an IA with IHS. IHS had some construction management roles as well as project management such as assisting with contract award and oversight. The outside engineering contractor, Stantec, needed nearly 2 years just to complete the design, due to the need for soils testing and detailed mapping. Anyway, I thought this public document might be instructive and assist you to understand all that this similar project took to complete.

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